

Application#	Patent#	Status	Date Filed	Title	Inventor Name
10823003	Not Issued	71	04/12/2004	Member For A Circuit Board, Method Of Manufacturing The Same, And Methods Of Manufacturing Circuit Boards	Hirayama, Kumiko
10897087	Not Issued	61	07/23/2004	Wiring Substrate For Intermediate Connection And Multi-Layered Wiring Board And Their Production	Hirayama, Kumiko
07334523	Not Issued	166	04/07/1989	Magnetic Recording Medium	Echigo, Fumio
07690489	5342668	150	04/24/1991	Magnetic Recording Medium Having Improved Electromagnetic Conversion Characteristics And Durability	Echigo, Fumio
07846686	Not Issued	161	03/04/1992	Disk-Shaped Magnetic Recording Medium	Echigo, Fumio
07892701	Not Issued	166	05/29/1992	Magnetic Recording Medium	Echigo, Fumio
08038194	5399407	150	03/26/1993	Magnetic Recording Medium	Echigo, Fumio
09110794	6037037	150	07/06/1998	Magnetic Recording Medium	Echigo, Fumio
09506318	Not Issued	41	02/17/2000	Non-Woven Fabric Material And Prepreg, And Circuit Board Using The Same	Echigo, Fumio
09573826	6694612	150	05/18/2000	A Mask Film Having A Non-Parting Portion	Echigo, Fumio
09734593	6546624	150	12/13/2000	Removable Film, A Substrate With Film, A Process For Forming The Removable Film And A Process For The Manufacturing Of The Circuit Board	Echigo, Fumio
09879385	6753483	150	06/12/2001	Printed Circuit Board And Method Of Manufacturing The Same	Echigo, Fumio
09919319	6459046	150	07/31/2001	Printed Circuit Board And Method For Producing The Same	Echigo, Fumio
09928869	6518514	150	08/13/2001	Circuit Board And Production Of The Same	Echigo, Fumio
09956205	6734375	150	09/18/2001	Circuit Board Electrically Insulating Material, Circuit Board And Method For Manufacturing The Same	Echigo, Fumio
09962245	6596381	150	09/26/2001	Resin Board, Manufacturing Process For Resin Board, Connection Medium Body, Circuit Board And Manufacturing Process For Circuit Board	Echigo, Fumio
09986453	6713688	150	11/08/2001	Circuit Board And Its Manufacture Method	Echigo, Fumio
10045344	6558780	150	10/25/2001	Circuit Board And Method For Manufacturing The Same	Echigo, Fumio
10155700	6756628	150	05/24/2002	Capacitor Sheet With Built In Capacitors	Echigo, Fumio
10224031	6799369	150	08/19/2002	Printed Circuit Board And Method For Producing The Same	Echigo, Fumio
10280762	7045198	150	10/24/2002	Prepreg And Circuit Board And Method For Manufacturing The Same	Echigo, Fumio
10280964	6691409	150	10/25/2002	Method Of Producing A Circuit Board	Echigo, Fumio
10338642	7066344	150	01/09/2003	Mask Film, Its Manufacturing Method, And Manufacturing Method Of Circuit Board Using The Same	Echigo, Fumio
10340041	Not Issued	161	01/09/2003	Printed Wiring Board And Method Of Manufacturing The Same	Echigo, Fumio
10373520	6686029	150	02/24/2003	Circuit Board And Method For Manufacturing The Same	Echigo, Fumio
10389515	6996902	150	03/14/2003	Circuit Board And Method For Manufacturing The Same	Echigo, Fumio
10401607	6745464	150	03/31/2003	Removable Film, A Substrate With Film, A Process For Forming The Removable Film And A Process For The Manufacturing Of The Circuit Board	Echigo, Fumio
10607306	6866892	150	06/27/2003	Resin Board, Manufacturing Process For Resin Board, Connection Medium Body, Circuit Board And Manufacturing Process For Circuit Board	Echigo, Fumio
10686576	7047629	150	10/17/2003	Method Of Manufacturing Circuit Board,	Echigo, Fumio
10695302	Not Issued	93	10/27/2003	Method Of Manufacturing Printed Circuit Board	Echigo, Fumio
10754416	Not Issued	61	01/09/2004	Circuit Board Electrically Insulating Material, Circuit Board And Method For Manufacturing The Same	Echigo, Fumio
10823003	Not Issued	71	04/12/2004	Member For A Circuit Board, Method Of Manufacturing The Same, And Methods Of Manufacturing Circuit Boards	Echigo, Fumio
10833817	6916706	150	04/27/2004	Capacitor Sheet, Method For Producing The Same, Board With Built-In Capacitors, And Semiconductor Device	Echigo, Fumio
10842900	7018705	150	05/10/2004	Multilayer Circuit Board And Method For Manufacturing The Same	Echigo, Fumio
10897087	Not Issued	61	07/23/2004	Wiring Substrate For Intermediate Connection And Multi-Layered Wiring Board And Their Production	Echigo, Fumio
11060314	7103971	150	02/18/2005	A Process For Manufacturing A Circuit Board	Echigo, Fumio
11226142	Not Issued	93	09/14/2005	Multilayer Circuit Board And Method For Manufacturing The Same	Echigo, Fumio
11511416	Not Issued	20	08/29/2006	Resin Board, Manufacturing Process For Resin Board, Connection Medium Body, Circuit Board And Manufacturing Process For Circuit Board	Echigo, Fumio
08275272	Not Issued	168	07/15/1994	Co2 Laser Machining Apparatus	Nakai, Izuru
08576638	5690846	150	12/21/1995	Laser Processing Method	Nakai, Izuru
08576640	5670069	150	12/21/1995	Laser Processing Method	Nakai, Izuru
08674853	Not Issued	166	07/03/1996	Co2 Laser Machining Apparatus	Nakai, Izuru
08914766	Not Issued	161	08/20/1997	Co2 Laser Machining Apparatus	Nakai, Izuru
09219506	6303902	150	12/23/1998	Apparatus And Method For Processing	Nakai, Izuru
09248020	6365844	150	02/10/1999	Printed Wiring Board	Nakai, Izuru
09495856	6403920	150	02/01/2000	Laser Processing Apparatus And Method	Nakai, Izuru
09881769	6946091	150	06/18/2001	Laser Drilling	Nakai, Izuru
09892651	6770843	150	06/28/2001	Laser Processing Apparatus And Method	Nakai, Izuru
09975780	6671951	150	10/12/2001	Printed Wiring Board, And Method And Apparatus For Manufacturing The Same	Nakai, Izuru
09976376	6518515	150	10/12/2001	Printed Wiring Board, And Method And Apparatus For Manufacturing The Same	Nakai, Izuru
10823003	Not Issued	71	04/12/2004	Member For A Circuit Board, Method Of Manufacturing The Same, And Methods Of Manufacturing Circuit Boards	Nakai, Izuru
11243968	Not Issued	30	10/06/2005	Manufacturing Method Of Optical Component And Camera Module	Nakai, Izuru
09879385	6753483	150	06/12/2001	Printed Circuit Board And Method Of Manufacturing The Same	Ueda, Yoji
09919319	6459046	150	07/31/2001	Printed Circuit Board And Method For Producing The Same	Ueda, Yoji
09928869	6518514	150	08/13/2001	Circuit Board And Production Of The Same	Ueda, Yoji
10224031	6799369	150	08/19/2002	Printed Circuit Board And Method For Producing The Same	Ueda, Yoji
10280964	6691409	150	10/25/2002	Method Of Producing A Circuit Board	Ueda, Yoji
10340041	Not Issued	161	01/09/2003	Printed Wiring Board And Method Of Manufacturing The Same	Ueda, Yoji
10695302	Not Issued	93	10/27/2003	Method Of Manufacturing Printed Circuit Board	Ueda, Yoji
10823003	Not Issued	71	04/12/2004	Member For A Circuit Board, Method Of Manufacturing The Same, And Methods Of Manufacturing Circuit Boards	Ueda, Yoji
10897087	Not Issued	61	07/23/2004	Wiring Substrate For Intermediate Connection And Multi-Layered Wiring Board And Their Production	Ueda, Yoji
11003680	Not Issued	30	12/03/2004	Circuit Board And Method For Manufacturing The Same, Semiconductor Package, Component Built-In Module And Board For Electronic Equipment	Ueda, Yoji
11079373	Not Issued	30	03/14/2005	Multilayer Circuit Board	Ueda, Yoji

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L7	1	("5346750").PN.	US-PGPUB; USPAT	OR	ON	2006/09/26 12:47
L8	147767	polyethyleneterephthalate poly\$1ethyleneterephthalate polyethylene\$1terephthalate poly\$1ethylene\$1terephthalate (poly adj ethyleneterephthalate) (polyethylene adj terephthalate) (poly adj ethylene\$1terephthalate) (poly\$1ethylene adj terephthalate) (poly adj ethylene adj terephthalate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 12:59
L9	96827	(aluminum with hydroxide) aldrox alhydrogel alkagel alternagel alu\$1cap (alu adj cap) alucol aludrox aludyal alumigel (alumina adj trihydrate) (alumina adj hydrate) (aluminum adj trihydrate) (aluminum adj hydrate) (amorphous adj alumina) amphogel amphojel antidiar dialume boehmite collumol creamalin cremorin fluagel gelumina (hydrated adj alumina) hycolal hydrolum merlium merlum pepsamar superfos uracid vanogel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 12:59
L10	5674	(mold adj release) with (film or layer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 12:59
L11	56	L10 and L8 and L9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 13:04
L12	3	(L10 same L8) and ((10 or 8) same L9)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 13:03

## EAST Search History

L13	0	L7 and (L10 or L8 or L9)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 13:04
S1	1	"20040214006".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/20 14:08
S2	5806	428/480.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 07:28
S3	486627	(circuit or wiring) adj board	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 07:33
S4	147767	polyethyleneterephthalate poly\$1ethyleneterephthalate polyethylene\$1terephthalate poly\$1ethylene\$1terephthalate (poly adj ethyleneterephthalate) (polyethylene adj terephthalate) (poly adj ethylene\$1terephthalate) (poly\$1ethylene adj terephthalate) (poly adj ethylene adj terephthalate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 07:37
S5	96827	(aluminum with hydroxide) aldrox alhydrogel alkagel alternagel alu\$1cap (alu adj cap) alucol aludrox aludyal alumigel (alumina adj trihydrate) (alumina adj hydrate) (aluminum adj trihydrate) (aluminum adj hydrate) (amorphous adj alumina) amphogel amphojel antidiar dialume boehmite collumol creamalin cremorin fluagel gelumina (hydrated adj alumina) hycolal hydrolum merlium merlum pepsamar superfos uracid vanogel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 07:38

## EAST Search History

S6	7	S2 and S3 and S4 and S5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 10:42
S7	22	("6365844" "6459046" "6518514" "6518515" "6546624" "6558780" "6596381" "6671951" "6686029" "6691409" "6713688" "6734375" "6745464" "6753483" "6799369" "6866892" "6996902" "7018705" "7045198" "7047629" "7066344" "7103971").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/26 07:42
S8	4	S7 and S3 and S4 and S5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 08:36
S9	1	"20030137815".pn.	US-PGPUB	OR	ON	2006/09/26 08:36
S10	0	S9 and S3 and S4 and S5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 08:36
S11	147767	polyethyleneterephthalate poly\$1ethyleneterephthalate polyethylene\$1terephthalate poly\$1ethylene\$1terephthalate (poly adj ethyleneterephthalate) (polyethylene adj terephthalate) (poly adj ethylene\$1terephthalate) (poly\$1ethylene adj terephthalate) (poly adj ethylene adj terephthalate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 10:39
S12	5609049	film or (mold adj release) or layer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 11:09

## EAST Search History

S13	96827	(aluminum with hydroxide) aldrex alhydrogel alkagel alternagel alu\$1cap (alu adj cap) alucol aludrox aludyal alumigel (alumina adj trihydrate) (alumina adj hydrate) (aluminum adj trihydrate) (aluminum adj hydrate) (amorphous adj alumina) amphogel amphojel antidiar dialume boehmite collumol creamalin cremorin fluagel gelumina (hydrated adj alumina) hycolal hydrolum merlium merlum pepsamar superfos uracid vanogel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 10:45
S14	361492	(insulat\$4 adj layer) or prepreg or ((woven or nonwoven) with (aramid\$1 or impregnat\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 10:44
S15	5806	428/480.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 10:42
S16	235	S15 and S11 and S13	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 10:43
S17	12	S15 and S11 and S12 and S13 and S14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 10:49
S18	486627	(circuit or wiring) adj board	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 10:49

## EAST Search History

S19	7	S15 and S18 and S11 and S13	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 10:49
S20	10	S17 not S19	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 10:56
S21	0	S11 and S12 and S13 and S14 and S18	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 10:58
S22	1	S11 and S12 and S13 and S14	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 10:57
S23	0	S11 and S12 and S13 and S14 and S18	FPRS	OR	ON	2006/09/26 10:58
S24	0	S11 and S12 and S13 and S14	FPRS	OR	ON	2006/09/26 10:58
S25	1	S11 and S12 and S13 and S14 and S18	USOCR	OR	ON	2006/09/26 10:59
S26	11	S11 and S12 and S13 and S14	USOCR	OR	ON	2006/09/26 10:59
S27	159	S11 and S12 and S13 and S14 and S18	US-PGPUB; USPAT	OR	ON	2006/09/26 10:59
S28	9	(S11 same S12 same S13) and S14 and S18	US-PGPUB; USPAT	OR	ON	2006/09/26 11:02
S29	13	(S11 with S12) and ((S11 or S12) with S13) and ((S11 or S12) with S14) and S18	US-PGPUB; USPAT	OR	ON	2006/09/26 11:09
S30	5674	(mold adj release) with (film or layer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 12:58
S31	1	(S11 with S30) and ((S11 or S30) with S13) and ((S11 or S30) with S14) and S18	US-PGPUB; USPAT	OR	ON	2006/09/26 11:11
S32	1	(S11 with S30) and ((S11 or S30) with S13) and ((S11 or S30) with S14)	US-PGPUB; USPAT	OR	ON	2006/09/26 11:11

## EAST Search History

S33	123058	release with (film or layer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/26 11:11
S34	1	(S11 with S33) and ((S11 or S33) with S13) and ((S11 or S33) with S14) and S18	US-PGPUB; USPAT	OR	ON	2006/09/26 11:11
S35	1	(S11 with S33) and ((S11 or S33) with S13) and ((S11 or S33) with S14)	US-PGPUB; USPAT	OR	ON	2006/09/26 11:11
S36	13	(S11 with S12) and ((S11 or S12) with S13) and ((S11 or S12) with S14) and S18	US-PGPUB; USPAT	OR	ON	2006/09/26 11:13
S37	1	(S11 with S12) and (S11 with S13) and ((S11 or S12) with S14) and S18	US-PGPUB; USPAT	OR	ON	2006/09/26 11:13